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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/620,495	07/20/2000	Michael Kenneth Brown	19-26	3563

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EXAMINER
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OSMAN, RAMY M

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 12/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/620,495

Applicant(s)

BROWN ET AL.

Examiner

Ramy M. Osman

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 07 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Status of Claims***

1. This communication is responsive to the applicants response to restriction requirement filed on October 7, 2005. This communication is also responsive to amendment filed on June 29, 2005. Claims 1-7 and 9-20 are pending.

### ***Election/Restrictions***

2. Applicant's election with traverse of Group I in the reply filed on 10/7/2005 is acknowledged. This traversal is found to be persuasive. Therefore the restriction requirement is withdrawn.

### ***Response to Arguments***

3. Applicant's arguments filed on 6/29/2005 with respect to claims 1-7 and 9-20 have been fully considered.

4. Applicants arguments in regards to 112 second paragraph rejections of claims 1,13,14,16-20 are persuasive, therefore examiner withdraws the 112 second paragraph rejection of those claims.

5. Applicants arguments in regards to the prior art rejections of claims 1-7,9-20 are not persuasive.

6. Applicant argues that the 'virtual client device' is not an actual client device.

***In reply***, 'virtual client device' is a broad limitation and is therefore broadly interpreted. This is because the properties of the virtual device have not been detailed enough, in the claim,

to limit its scope of interpretation. Virtual is an abstract concept that is subject to broad interpretation. Applicant has not stated in the claim that the virtual device is not a physical device. Therefore, the limitation is interpreted to be “a device that can perform many features that separate physical devices can perform”.

7. Applicant argues that there is no pattern matching process disclosed in the McCauley reference.

*In reply*, McCauley inherently teaches the broad limitations of pattern matching. This is because McCauley teaches that components of the page specifications (which is equivalent to applicants ‘originally authored web content’) are compared and matched to page renderers in order to decide how to alter the page based on the characteristics of the client. The resultant altered page is an information page that is customized for that client. The page renderers utilize pane renderers and pane types to alter specific portions of the page (i.e. component structures subject to alteration in accordance with augmentation file). (*see* column 4 lines 40-67, column 5 lines 5-10&19-30, column 6 lines 1-10&35-45, column 7 lines 20-31&61-67, column 8 lines 5-20, including the rest of the reference).

8. Applicant argues that McCauley does not teach the claimed default augmentation files.

*In reply*, McCauley teaches that a default pane renderer is selected if there are no other alternative pane renderers available for a particular pane type (column 11 lines 45-67 and Figure 3).

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

**10. Claims 1-5,7,9,12-14 and 16-19 rejected under 35 U.S.C. 102(e) as being anticipated by McCauley et al. (U.S. Patent No. 6,626,958).**

11. In reference to claim 1,18 and 19, McCauley teaches an apparatus, a method, and a corresponding program comprising:

at least one server within a network, the server being operative to process a client request generated by a client device to determine a particular client type associated with the client device (column 5 lines 5-18);

to retrieve web content identified in the client request (column 5 lines 1-5);

to retrieve one or more augmentation files associated with at least one of the web content and the particular client type (column 6 lines 1-30); and

to alter the retrieved web content in accordance with the one or more augmentation files, wherein altered web content is delivered to client device (column 6 lines 1-30);

wherein the server parses the retrieved web content into one or more component structures, subsequently applies a pattern matching process to recognize designated component structure subject to alteration in accordance with the one or more augmentation files, wherein the pattern matching process comprises comparing a given one of the component structures of the

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retrieved web content to predetermined component structures represented by respective tokens in the one or more augmentation files (column 5 lines 5-10&19-30, column 6 lines 1-10&35-45, column 7 lines 20-31&61-67, column 8 lines 5-20).

12. In reference to claim 2, McCauley teaches the apparatus of claim 1 wherein the client device comprises at least one of a computer, a personal digital assistant, a wireless telephone and a voice browser-equipped device (column 2 lines 1-20).

13. In reference to claim 3, McCauley teaches claim 1 wherein the web content is at least partially in either an HTML or XML format (column 5 lines 35-55 and column 6 lines 1-15).

14. In reference to claim 4, McCauley teaches the apparatus of claim 1 wherein the augmentation files are co-located with the web content at a site remote from the server (column 3 lines 39-53)

15. In reference to claim 5, McCauley teaches claim 1 wherein an augmentation file comprising a patch file (column 6 lines 1-30 and column 7 lines 20-40).

16. In reference to claim 7, McCauley teaches claim 1 above including the server system distinguishing between clients (Abstract). McCauley further teaches wherein the server determines the client type using at least one of an HTTP header element, a client-identifying cookie, and an HTTP GET request QUERY\_STRING attribute (column 4 line 66 – column 5 line 5).

17. In reference to claim 9, McCauley teaches claim 1 wherein the pattern matching process utilizes a pattern matching expression comprising of context, pattern, precedence and replacement elements (Summary, column 6 lines 25-50 and column 8 lines 5-45).

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18. In reference to claim 12, McCauley teaches claim 1 wherein the received client request is associated with a plurality of different client devices and the retrieved augmentation file(s) comprise one or more files for each of the different client devices (column 3 lines 39-53, column 4 lines 20-50 and column 12 lines 44-60).

19. In reference to claim 13, McCauley teaches an apparatus for use in a computer network, the apparatus comprising:

at least one at least one server within a network, the server being operative to process a client request generated by a client device to determine a particular client type associated with the client device (column 5 lines 5-18),

to retrieve web content identified in the client request (column 5 lines 1-5),

to retrieve one or more augmentation files associated with at least one of the web content and the particular client type (column 6 lines 1-30), and

to alter the retrieved web content in accordance with the one or more augmentation files, wherein altered web content is delivered to client device (column 6 lines 1-30),

wherein the client device comprises a virtual client device having a combination of a plurality of different features provided by multiple distinct physical devices (column 2 lines 1-20 and column 4 lines 20-32, McCauley teaches client devices with various features. This is an inherent feature of computing devices which can perform many functions of distinct physical devices).

20. In reference to claim 14, McCauley teaches an apparatus for use in a computer network, the apparatus comprising:

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at least one at least one server within a network, the server being operative to process a client request generated by a client device to determine a particular client type associated with the client device (column 5 lines 5-18),

to retrieve web content identified in the client request (column 5 lines 1-5),

to retrieve one or more augmentation files associated with at least one of the web content and the particular client type (column 6 lines 1-30), and

to alter the retrieved web content in accordance with the one or more augmentation files, wherein altered web content is delivered to client device (column 6 lines 1-30),

wherein the server processes the client request such that the request appears to originate from a virtual client device having a combination of a plurality of different features provided by multiple distinct physical devices (column 2 lines 1-20 and column 4 lines 20-32, McCauley teaches client devices with various features. This is an inherent feature of computing devices which can perform many functions of distinct physical devices).

21. In reference to claims 16 and 17, McCauley teaches an apparatus for use in a computer network, the apparatus comprising:

at least one at least one server within a network, the server being operative to process a client request generated by a client device to determine a particular client type associated with the client device (column 5 lines 5-18),

to retrieve web content identified in the client request (column 5 lines 1-5),

to retrieve one or more augmentation files associated with at least one of the web content and the particular client type (column 6 lines 1-30), and



to alter the retrieved web content in accordance with the one or more augmentation files, wherein altered web content is delivered to client device (column 6 lines 1-30),

wherein at least one of the augmentation files comprise a default augmentation file stored on the at least one server (Figure 3, column 6 lines 1-40, column 7 lines 20-40 and column 11 lines 45-67).

***Claim Rejections - 35 USC § 103***

22. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

23. **Claims 6,15 and 20 rejected under 35 U.S.C. 103(a) as being unpatentable over McCauley et al. (U.S. Patent No. 6,626,958) in view of Tso et al. (U.S. Patent No. 6,421,733).**

24. In reference to claims 6 and 15, McCauley teaches claims 1 and 14 above, which includes an information server system responding to client requests for content (Summary). McCauley fails to explicitly teach wherein the server comprises a web proxy server configured between a device associated with the client and another server which provides the content identified in the client request. However, Tso teaches dynamically transcoding Internet content to conform to different client types (Summary). Tso discloses a transcoding web proxy server between a client and an Internet server identified in the client request (column 3 lines 17-45 and figure 3 #34).

It would have been obvious for one of ordinary skill in the art to modify McCauley by making the server system an intermediary proxy server which renders content between a client

and the Internet as per the teachings of Tso so to dynamically transcode Internet content to conform to different client types.

25. In reference to claim 20, McCauley teaches processing system comprising:

at least one at least one server within a network, the server being operative to process a client request generated by a client device to determine a particular client type associated with the client device (column 5 lines 5-18),

to retrieve web content identified in the client request (column 5 lines 1-5),

to retrieve one or more augmentation files associated with at least one of the web content and the particular client type (column 6 lines 1-30), and

to alter the retrieved web content in accordance with the one or more augmentation files, wherein altered web content is delivered to client device (column 6 lines 1-30),

wherein the server parses the retrieved web content into one or more component structures, subsequently applies a pattern matching process to recognize designated component structure subject to alteration in accordance with the one or more augmentation files, wherein the pattern matching process comprises comparing a given one of the component structures of the retrieved web content to predetermined component structures represented by respective tokens in the one or more augmentation files (column 6 lines 25-50).

McCauley fails to explicitly teach wherein the server comprises an interpolating proxy server coupled to the web server to process a client request. However, Tso teaches dynamically transcoding Internet content to conform to different client types (Summary). Tso discloses a transcoding web proxy server between a client and an Internet server identified in the client request (column 3 lines 17-45 and figure 3 #34).

It would have been obvious for one of ordinary skill in the art to modify McCauley by making the server system an intermediary interpolating proxy server which renders content between a client and the Internet as per the teachings of Tso so to dynamically transcode Internet content to conform to different client types.

**26. Claims 10 and 11 rejected under 35 U.S.C. 103(a) as being unpatentable over McCauley et al. (U.S. Patent No. 6,626,958) in view of Li et al. (U.S. Patent No. 6,345,279).**

McCauley teaches claim 9 above. McCauley does not explicitly teach wherein the context element contains instructions of the form pattern:replacement and the precedence element specifies an order of application of the instructions associated with context element. However, Li teaches context elements with instructions for specifying a replacement mechanism to be implemented upon content items. The replacement mechanism of Li is in the form of an InfoPyramid structure in which multiple representations of an item are organized so that an order of application can be applied to content items for transcoding (column 4 line 50 – column 5 line 62).

It would have been obvious for one of ordinary skill in the art to modify McCauley wherein the context element contains instructions of the form pattern:replacement and the precedence element specifies an order of application of the instructions associated with context element as per the teachings of Li

**27. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

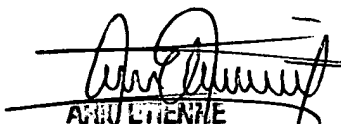
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M. Osman whose telephone number is (571) 272-4008. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMO  
December 17, 2005

  
ARIO ETIENNE  
SUPERVISOR, PATENT EXAMINER